

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/000929

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
 - ☐ international search (Rule 12.3 and 23.1(b))
 - ☐ publication of the international application (Rule 12.4)
 - ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
 - ☐ the international application as originally filed/furnished
 - ☒ the description:
 - pages 1-13 _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☒ the claims:
 - nos. _____ as originally filed/furnished
 - nos.* _____ as amended (together with any statement) under Article 19
 - nos.* 1-18 received by this Authority on 16.03.2005 with the letter of 16.03.2005
 - nos.* _____ received by this Authority on _____
 - ☒ the drawings:
 - sheets 1/6-6/6 _____ as originally filed/furnished
 - sheets* _____ received by this Authority on _____
 - sheets* _____ received by this Authority on _____
 - ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
 - ☐ the description, pages _____
 - ☐ the claims, nos. _____
 - ☐ the drawings, sheets/figs _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - ☐ the description, pages _____
 - ☐ the claims, nos. _____
 - ☐ the drawings, sheets/figs _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
-----------	---

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/000929

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

which are configured to divert opposing electric currents on opposite sides of the pole segments,

- are substantially polygonal in shape, are arranged adjacent one another with spaces therebetween for accommodating the electromagnetic coil assemblies and are arranged parallel to one another.

The subject matter of claim 1 differs therefrom in that the pole segments are not enveloped by an electromagnetic coil assembly in a meander-like manner.

2. The present invention can therefore be considered to address the problem of producing a simpler, cheaper and more compact injection valve.
3. That problem is solved by the distinguishing features specified under point 1. These make it possible, in an efficient production method, to arrange between two layers of sheet metal containing soft iron a current conducting strip for forming the magnetic coil assembly and a sheet metal strip containing soft iron for forming a stator-yoke back. The current-conducting strip and the sheet metal strip containing soft iron thus adjoin one another on at least one longitudinal edge of each in an electrically insulated manner.

Document US4156506 (D4) discloses an injection

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/000929

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
-----------	---

valve with a single meandering pole segment (see figure 5). The arrangement therein solves problems different from that solved by the present application and is geometrically too far removed for it to be possible to combine the two documents mentioned.

4. The subject matter of dependent claims 2-18 is considered novel and inventive, since those claims contain further embodiments of the injection valve according to claim 1.
5. Claims 1-18 thus satisfy the criterion in PCT Article 33(1).